Sound Blaster Live! for Macintosh

User Guide

On-line Version



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Notice for the USA

FCC Part 15: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, this notice is not a guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try one or more of the following measures:

Reorient or relocate the receiving antenna.	
☐ Increase the distance between the equipment and receiver.	
Connect the equipment to an outlet on a circuit different from that to w receiver is connected.	hich the
Consult the dealer or an experienced radio/TV technician.	
☐ Caution	

To comply with the limits for the Class B digital device, pursuant to Part 15 of the FCC Rules, this device must be installed in computer equipment certified to comply with the Class B limits.

All cables used to connect the computer and peripherals must be shielded and grounded. Operation with non-certified computers or non-shielded cables may result in interference to radio or television reception.

Modifications

Any changes or modifications not expressly approved by the grantee of this device could void the user's authority to operate the device.

Notice for Canada

This apparatus complies with the Class "B" limits for radio interference as specified in the Canadian Department of Communications Radio Interference Regulations.

Cet appareil est conforme aux normes de CLASSE "B" d'interférence radio tel que spécifié par le Ministère Canadien des Communications dans les règlements d'interférence radio.

Compliance

This product conforms to the following Council Directive:

☐ Directive 89/336/EEC, 92/31/EEC (EMC), 73/23/EEC (LVD)

Declaration of Conformity

According to the FCC96 208 and ET95-19

Name: Creative Labs Inc.

Address: 1901 McCarthy Boulevard

Milpitas, CA. 95035 United States Tel: (408) 428-6600

declares under its sole responsibility that the product

Trade Name: Creative Labs

Model Number: CT4875

has been tested according to the FCC / CISPR22/85 requirement for Class B devices and found compliant with the following standards:

EMI/EMC: ANSI C63.4 1992, FCC Part 15 Subpart B

Complies with Canadian ICES-003 Class B.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1. This device may not cause harmful interference, and
- This device must accept any interference received, including interference that may cause undesirable operation.

Ce matériel est conforme à la section 15 des régles FCC.

Son Fonctionnement est soumis aux deux conditions suivantes:

- 1. Le matériel ne peut être source D'interférences et
- Doit accepter toutes les interférences reques, Y compris celles pouvant provoquer un fonctionnement indésirable.

Compliance Manager Creative Labs, Inc. October 19, 2000

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Introduction

Sound Blaster Live! for Macintosh is the top audio solution for games, movies, CDs, MP3 music, and Internet entertainment. With its support for today's leading audio standard—EAX technology—Sound Blaster Live! creates real-life, multidimensional sound and multi-textured acoustical environments for the most realistic audio experience. Its powerful EMU10K1 audio processor delivers audio at optimum CPU performance with the highest fidelity and absolute clarity.

System Requirements



Third-party applications may need higher system requirements. Refer to the online Help of individual applications for details.

Creative EAX Technology



Minimum configuration:

- ☐ Power Macintosh 120 MHz 603e
- ☐ Mac OS 8.6
- ☐ 32 MB RAM for Mac OS 8.6; 64 MB RAM for Mac OS 9.x

Recommended configuration:

- ☐ Power Macintosh G3 or G4
- ☐ Mac OS 9.x
- ☐ 128 MB RAM

Other requirements:

- Available PCI slot
- ☐ QuickTime 4.1
- ☐ 10 MB free hard disk space
- ☐ CD-ROM drive (for software installation)
- ☐ Headphones or amplified speakers (available separately)

EAXTM redefines the audio experience. EAX technology delivers advanced audio functionality and performance, adding sophisticated audio processing capabilities, interactive and high-definition sound to digital entertainment. EAX technologies are implemented across a range of audio hardware solutions, computer software, application software, and application programming interfaces (APIs) from Creative. With EAX technology-enabled products, you can shape and customize your audio experience. Certain EAX technology also delivers advanced audio capabilities for music composition and sound design. Be sure to visit www.EAX.creative.com for more information.

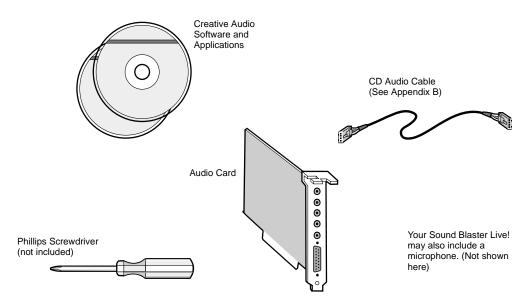
EAX technologies bring incredible, cutting-edge audio to the Sound Blaster Live! for Macintosh.

With high-quality environmental effects, multi-channel speaker support, digital processing and SoundFont digital instrument libraries, superb audio for music playback, music creation and interactive gaming is assured. Record and enjoy your favorite MP3 or CD songs with environment effects like "Concert Hall" or "Underwater". You'll be amazed at the difference EAX technology makes to your computer sound!

Installing Sound Blaster Live!

What You Need

Most of the items you need for installation are included. The following illustration shows the basic components necessary for a complete installation.



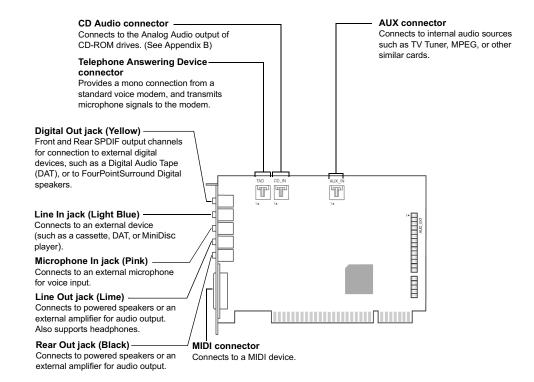
Your Audio Card

Both Line Out and Rear Out jacks can be used simultaneously to power 4.1 channel speaker systems, for example, FourPointSurround speaker systems from Cambridge SoundWorks.

Most Mo

Most Macintosh computers are already configured for digital CD audio and do not require use of an analog CD audio cable. Certain older Macintosh computers may force CD audio to the built-in speaker or fail to produce CD audio. In these cases, use the enclosed CD audio cable to play CD audio directly through the SoundBlaster Live! Refer to Appendix B for more information.

Your audio card has these jacks and connectors which allow you to attach other devices:



Installing the Audio Card



Before you disconnect the power cable and remove the computer cover, touch a grounded metal surface to discharge static electricity.



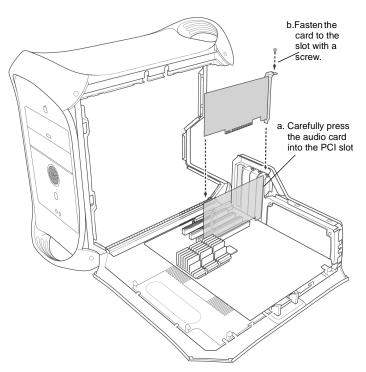
Remove or disable any existing audio card and its driver from your computer. Refer to the manufacturer's documentation for details.

To install the audio card:

- Turn off your computer and disconnect the power cable.
- Disconnect the monitor and other devices that are connected to the computer.
- Lift the latch on the side of the computer to unlock the side panel and gently lower the side panel onto a clean, flat surface.

Note: With earlier models of the Power Mac, remove the screws at the back of the computer to remove the computer cover.

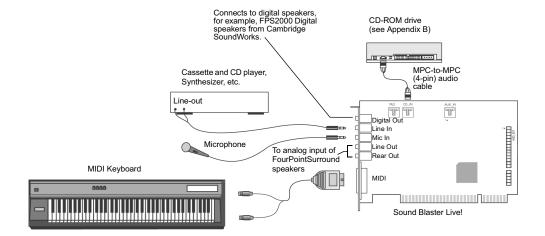
- 4. Locate a PCI expansion slot to accommodate the audio card. Remove the slot cover from your computer—save the screw to secure the audio card.
- Align the gold-striped tabs on the bottom of the audio card with the PCI slot, and carefully press the card into place until it fits snugly.
- 6. Use the screw from the slot cover to secure the audio card to the frame of the computer—securing the card assures proper grounding.
- 7. Connect your speakers, headphones, microphone, MIDI device, or other devices to the back panel of the audio card.
- 8. Replace the computer cover.
- 9. Reconnect the power cable, monitor, and other devices.



Connecting Related Devices

The following diagram shows you how to connect related devices to the jacks and connectors on your audio card:





Installing the **Creative Software**

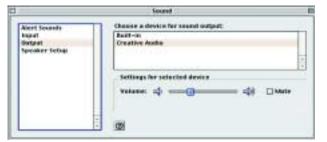


This manual reflects a software installation in an unmodified version of the operating system. Your installation screens and procedure may vary slightly from what is shown and described. The variations may be caused by other software/hardware installed on your computer, or the version of the Macintosh operating system.

The Sound Blaster Live! for Macintosh software installation CD contains the drivers necessary for operation and utilities to make the most of the audio card.

To install in OS 8.6 or later:

- Turn on your computer.
- Insert the installation CD into your CD-ROM drive.
- When the Sound Blaster Live! installation screen appears, follow the instructions on the screen to complete the installation.
- After all the drivers and applications are installed on your computer, restart your computer.
- Click the Apple icon on the task bar at the top left side of the screen.
- Select Control Panels and click on Sound.
- On the *Sound* screen, make sure that Creative Audio is selected for Output. (for Mac OS 8.6, Output reads Sound Out)



Using External Devices with your Audio Card

The Sound Blaster Live! for Macintosh enables you to use many different external devices (such as microphones, MIDI keyboards, or external CD-ROM) through the input jacks.

Using an external device:

- 1. Connect the device to your computer.
- 2. Switch on your computer and the external device.
- 3. Click the Apple icon on the task bar at the top left hand side of the screen.
- 4. Select Control Panels and click on Sound.
- 5. On the *Sound* screen select *Input* and *Creative Audio*.



6. In the *Input Source* dialog menu choose the device you wish to use.



Using Sound Blaster Live! for Macintosh

Creative Software

Sound Blaster Live! for Macintosh can best be appreciated through some of the advanced software that makes maximum use of the audio card's features. To assist you in exploring these features, Creative has assembled an assortment of applications that demonstrate and allow you to explore the full potential of Sound Blaster Live! for Macintosh.

☐ SoundFont Bank Manager

☐ Mixman® Studio Mac

☐ Cubasis AV Mac

☐ SoundJamTM MP

☐ sonicWORX Essential

☐ Deus ExTM

Each of the applications included with Sound Blaster Live! for Macintosh provides online help to guide you during the use of the software.

Creative Mixer

	With	Creative	Mixer	you	can
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- Select and mix sounds from various audio sources for playback.
- ☐ Select an audio source for recording.
- Adjust the volume level of each audio input source.
- Adjust the treble, bass, and master volume levels.
- Open the Fade & Balance screen to adjust the audio output for up to four speakers.
- Open the Source Panning screen to position sounds from the different audio input sources between the left and right speaker channels.
- Apply environmental effects to sounds from audio sources...



For more detailed information, refer to the online Help:

- 1. Start the Creative Mixer program.
- 2. On the Menu bar at the top of the screen select *Help*.
- 3. Click on the Mixer Guide.



When selecting an audio input source for recording:

Only one audio input source can be selected at any one time.

If you are not sure what the icons on the Creative Mixer represent, place the pointer over any icon or area to display its name and description.

SoundFont Bank Manager



If you are not sure what the icons on the SoundFont Bank Manager represent, place the pointer over any icon or area to display a description.

With SoundFont Bank Manager you can:

- Load sound presets or entire collections of sound presets that use the SoundFont 2.0 and 2.1 file formats.
- Audition the individual sound samples and instruments that are loaded.
- Connect an external keyboard or MIDI sequencer to audition sounds.
- Configure sound samples and presets used with the OMS (Open Music System) MIDI or wavetable synthesizers.



Loading a SoundFonts **Bank into Memory**

To load a SoundFonts bank into memory:

- 1. In SoundFont Bank Manager, click the Bank button.
- In the Configure Bank dialog box, select the bank number into which the SoundFonts Bank is to be loaded.
- To load all presets in a SoundFont (*.SF2) file to the desired MIDI bank location in the synthesizer, click the Load button.
- 4. Select the SoundFont bank you want to load, click the OK button to complete the process.

For more detailed information and a guide to Command Keys refer to the online Help.

- 1. Start the Creative SoundFont Bank Manager program.
- 2. On the Menu bar at the top of the screen select *Help*.
- 3. Click on SoundFont Guide.

Additional Applications

Sound Blaster Live! for Macintosh can best be appreciated through some of the advanced software that makes maximum use of the audio card's features. To assist you in exploring the full potential of Sound Blaster Live!, Creative has included an assortment of music playback, music creation, and gaming software.

SoundJam™ MP

SoundJamTM MP is the premier full-featured MP3 player and encoder for Macintosh. Now you can create music files, play them, organize them, annotate them, and more!

For more information, refer to the Help file or visit www.soundjam.com.

Mixman® Studio Mac™

Mixman[®] Studio MacTM lets you create professional-quality music on your Macintosh. For great-sounding music, simply use your computer keyboard to combine up to 16 individual sounds from the 500+ provided.

For more information, refer to the MANUAL.PDF file or visit www.mixman.com.

Cubasis AV

Cubasis AV records and plays both digital audio and MIDI, featuring intuitive and easy-to-use tools that let you arrange and edit your recordings down to the smallest detail.

For more information, refer to the Read Me file.

sonicWORX Essential

sonic WORX Essential is a professional audio editor designed for post production work and recordings in the digital domain.

For more information, refer to the Read Me file or visit www.sonicworx.com.

Deus Ex™

Deus Ex is the first EAX technology game for the Macintosh.

This is a first-person, role-playing shooter game set in the future—2052 A.D.

In the game, you need to acquire skills to use objects or weapons that you pick up...if you don't, you may not be able to hold that sniper rifle steady and shoot accurately. You also need to decide if you want to invest in various weapon skills (for a blast-everything-away approach) or computer and electronics skills (for a more shrewd hacker approach).



General Specifications

Features

Wave-Table Synthesis	☐ E-mu Systems, Inc. EMU10K1 TM music synthesis engine
	☐ 64-voice hardware polyphony with E-mu's patented 8-point interpolation technology
	☐ SoundFont technology for user-definable wavetable sample sets
	☐ Use available host memory to load professional quality samples
Effects Engine	☐ E-mu Systems, Inc. EMU10K1 patented effects processor
	☐ Support for real-time digital effects across any audio source
	☐ Full bass, treble, and volume controls available for all audio sources
EAX Technology	☐ Environmental Audio Effects—user-selectable modes that simulate acoustic environments
MIDI Interface	☐ Supports standard external MIDI controller
On-Board Connectors	
Audio	☐ Digital Out
	Line In
	☐ Microphone In
	☐ Front Line Out / Headphone Out
	Rear Line Out
Interfaces	☐ MIDI port

Troubleshooting

This appendix provides tips for solving problems you may encounter during installation or normal use. Some frequently asked questions have also been included.

CD-Audio Cable

I hear CD audio through the built-in speaker even though other audio plays through SoundBlaster Live! or I don't hear CD audio even though other audio plays through SoundBlaster Live!

Most Macintosh computers are configured for digital CD audio and do not require an analog CD audio cable. Certain older Macintosh computers may force CD audio to the built-in speaker or fail to produce CD audio. In these cases, the enclosed CD audio cable can be used to play CD audio directly through the SoundBlaster Live! Make sure other audio plays through the SoundBlaster Live! properly before attempting the following procedure.

- 1. Turn off your computer and disconnect the power cable.
- 2. Disconnect the monitor and other devices connected to the computer.
- 3. Lift the latch on the side of the computer to unlock the side panel and gently lower the side panel onto a clean, flat surface.
 - Note: With earlier models of the Power Mac, remove the screws at the back of the computer to remove the computer cover.
- 4. Locate the CD audio connector on the back of the CD-ROM drive and unplug the existing audio cable (if present).
- 5. Connect the Audio Cable supplied with Sound Blaster Live! to the audio connector at the back of the CD-ROM drive.
- 6. Attach the other end of the audio cable into the CD In connection on Sound Blaster Live!
- Replace the computer cover and reconnect the monitor and other devices.
- 8. Turn on your computer.

Note: CD audio is now controlled by the Analog CD control on the Mixer and not by the Audio CD control.

Sound Fonts

The MIDI function is not working properly. I can't load SoundFonts.

You have to install OMS before the MIDI function works properly.

When SoundFont Bank Manager is not running:

- 1. In the Opcode folder, double-click OMS Applications, and then double-click OMS Setup.
- 2. Follow the on screen instructions to run OMS setup.
- 3. In the Save dialog box of the Device List screen, rename "My Studio Setup" to "SBLive Setup"

If you are running SoundFont Bank Manager:

- 1. In the menu bar, click MIDI Options.
- 2. Select OMS Studio Setup from the list.
- 3. Follow the on screen instructions to run OMS setup.

If setup is successful, SB Live! MIDI Port is displayed.

QuickTime Instruments Default

QuickTime is set up as the default for instruments. I can't use the Sound Blaster Live! SoundFont synthesizer.

You will need to change the default settings for QuickTime.

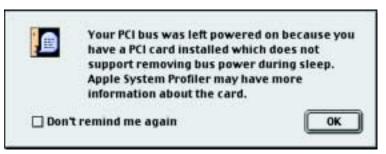
- 1. Ensure *Creative Audio* is set for *Sound Out* as described in "Installing the Creative Software" on page 5.
- 2. Ensure OMS is installed and that "SBLive Setup" is saved on the *Device List* dialog box as described in "Sound Fonts" on page 14.
- 3. Click the Apple icon on the menu bar at the top left hand side of the screen.
- 4. Select Control Panels and and click on QuickTime Settings.
- 5. In the *QuickTime Settings* screen, choose *Music* from the pull-down menu.
- 6. Clck on Edit List and select General MIDI from the pull-down menu.
- 7. In the QuickTime Music playback window, select HW Synth Port 1 from the MIDI Port column.
- 8. Set QuickTime MIDI Input to SB Live! MIDI Port, and click OK.

Sleep Mode

When recovering from Sleep, a message appears stating "Your PCI bus was left powered on because you have a PCI card installed which does not support removing bus power during sleep. Apple System Profiler may have more information about the card.

Your Macintosh Operating System has kept Sound Blaster Live! powered while in sleep mode. This is normal and appropriate for your sound card.

1. Click the Don't remind me again check box on the screen to disable future displays of this message.



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